Seq ID 1

# SEQUENCE LISTING

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#### Seq ID 61

MVNPIGPGPIDETERTPPADLSAQGLRASAANKSAEAQRIAGAEAKPKESKTDSVERWSILRSAVNALMSLADKLGIASS NSSSSTSRSADVDSTTATAPTPPPPTFDDYKTQAQTAYDTIFTSTSLADIQAALVSLQDAVTNIKDTAATDEETAIAAEW ETKNADAVKVGAQITELAKYASDNQAILDSLGKLTSFDLLQAALLQSVANNNKAAELLKEMQDNPVVPGKTPAIAQSLVD QTDATATQIEKDGNAIRDAYFAGQNASGAVENAKSNINSISNIDSAKAAIATAKTQIAEAQKKFPDSPILQEAEQMVIQAE KDLKNIKPADGSDVPNPGTTVGGSKQQGSSIGSIRVSMLLDDAENETASILMSGFRQMIHMFNTENPDSQAAQQELAAQA RAAKAAGDDSAAAALADAQKALEAALGKAGQQQGILNALGQIASAAVVSAGVPPAAASSIGSSVKQLYKTSKSTGSDYKT QISAGYDAYKSINDAYGRARNDATRDVINNVSTPALTRSVPRARTEARGPEKTDQALARVISGNSRTLGDVYSQVSALQS VMQIIQSNPQANNEEIRQKLTSAVTKPPQFGYPYVQLSNDSTQKFIAKLESLFAEGSRTAAEIKALSFETNSLFIQQVLV NIGSLYSGYLQ

### Seq ID 62

MKKLLKSALLSAAFAGSVGSLQALPVGNPSDPSLLIDGTIWEGAAGDPCDPCATWCDAISLRAGFYGDYVFDRILKVDAP KTFSMGAKPTGSAAANYTTAVDRPNPAYNKHLHDAEWFTNAGFIALNIWDRFDVFCTLGASNGYIRGNSTAFNLVGLFGV KGTTVNANELPNVSLSNGVVELYTDTSFSWSVGARGALWECGCATLGAEFQYAQSKPKVEELNVICNVSQFSVNKPKGYK GVAFPLPTDAGVATATGTKSATINYHEWQVGASLSYRLNSLVPYIGVQWSRATFDADNIRIAQPKLPTAVLNLTAWNPSL LGNATALSTTDSFSDFMQIVSCQINKFKSRKACGVTVGATLVDADKWSLTAEARLINERAAHVSGQFRF

# Seq ID 63

MSVNPSGNSKNDLWITGAHDQHPDVKESGVTSANLGSHRVTASGGRQGLLARIKEAVTGFFSRMSFFRSGAPRGSQQPSA PSADTVRSPLPGGDARATEGAGRNLIKKGYQPGMKVTIPQVPGGGAQRSSGSTTLKPTRPAPPPPKTGGTNAKRPATHGK GPAPQPPKTGGTNAKRAATHGKGPAPQPPKGILKQPGQSGTSGKKRVSWSDED

# Seq ID 64

MGINPSGNRSPDDVWVRGAQGDSSSTQGTGATNSNLGAHNVTTSTSQPQVASKAKQLWQTVREFFLGKKSPDSSQGASGP
AMQSPSGPTIRPTRPAPPPPTTGGANAKRPATHGKGRAPQPPTAGSSSGSEQPTAMSSEVAKLVSELKDAVHSHAESQKV
LKKVSQELQTKWTDWENNRGPDYLLHGYRVIARALQQTYTEQSMLIEGTSSTGPVPQAVTVAKDAVTQTVRGAIKNLENP
KPGNDPDGVLMQVVISLGIEGPTLDPGESIQNFLETRVSDFGGDDSDIDYTSDIARLGSALDRVRENHPNEMPRIWIALA
RELGAAVHSHATSVRIANAGKNHTRDVVRMANESSRLLQGMKVLSVGAWANTMTVLIGDLFE

### Seq ID 65

MKTLWHFVSKAFLSIVGLCCGVVLAFVVIFALIASSLGNGDATFVSLPDAQGEVKDLGKTAPIIAVIEMKDVIASSKNTA KTIQNILEGFEKAPLKDRVKGIVIDMDCPGGEVFEIDRIYSMLRFWKERKGFPIYIYVNGLCASGGYYVSCAATKIYATS SSLIGSIGVRSGPFFNVKEGLNRYGVESDLLTAGKDKAPMNPYTPWTSHDREERQATLDFLYGQFVDIVTQNRPLLTKEK LVHTLGARIFSPEKAKQEGYIDVVGATKEQVLQDIVAVCKIEDNYRVIGSGGDGWWKRVASAAASSPLVTGMIKHDILPL SHDAAYIPPYLAL

## Seq ID 66

MRPHRKHVSSKSLALKQSASTHVEITTKAFRLSMPLKQLILEKSDHLPPMETIRVVLTSHKDKLGTEVHVVASHGKEILQ TKVHNANPYTAVINAFKKIRTMANKHSNKRKDRTKHDLGLAAKEERIAIQEEQEDRLSNEWLPVEGLDAWDSLKTLGYVP ASAKKKISKKKMSIRMLSQDEAIRQLESAAENFLIFLNEQEHKIQCIYKKHDGNYVLIEPSLKPGFCI

# Seq ID 67

MAAPINQPSTTTQITQTGQFFTTTTVGSLGEHSVTTTGSGAAAQTSQTVTLIADHEMQBIASQDGSAVSFSAEHSFSTLP PETGSVGATAQSAQSAGLFSLSGRTQRRDSEISSSSDGSSISRTSSNASSGETSRAESSPDLGDLDSLSGSERAEGAEGP EGPGGLPBSTIPHYDPTDKASILNFLKNPAVQQKMQTKGGHFVYVDEARSSFIFVRNGDWSTAESIKVSNAKTKBNITKP

ADLEMCIAKFCVGYETIHSDWTGRVKPTMEERSGATGNYNHIMLSMKFKTAVVYGPWNAKESSGYTPSAWRRGAKVETG PIWDDVGGLKGINWKTTPAPDFSFINETPGGGAHSTSHTGPGTPVGATVVPNVNVLGGIKVDLGGINLGGITTNVTTEE GGGTNITSTKSTSTDDKVSITSTGSQSTIEEDTIQFDDPGQGEDDNAIPGTNTPPPPGPPPNLSSSRLLTISNASLNQVL QNVRQHLNTAYDSNGNSVSDLNQDLGQVVKNSENGVNFPTVILPKTTGDTDPSGQATGGVTEGGGHIRNIIQRNTQSTGQ SEGATPTPQPTIAKIVTSLRKANVSSSSVLPQPQVATTITPQARTASTSTTSIGTGTESTSTTSTGTGTGSVSTQSTGVG TPTTTTRSTGTSATTTTSSASTQTPQAPLPSGTRHVATISLVRNAAGRSIVLQQGGRSQSFPIPPSGTGTQNMGAQLWAA ASQVASTLGQVVNQAATAGSQPSSRRSSPTSPRRK

#### Seq ID 68

MKTSQLFYKTSKNANKSAAVLSNELLEKAGYLFKVSKGVYTYTPLLWRVVSKMMNIIREELNAIGGQELLLPLLHNAELW QHTGRWEAFTSEGLLYTLKDREGKSHCLAPTHEEVICSFVAQWLSSKRQLPLHLIYQIATKFRDEIRPRFGLIRSRELLME DSYTFSDSPEQMNEQYEKLRSAYSKIFDRLGLAYVIVTADGGKIGKGKSEEFQVLCSLGEDTICVSGSYGANIEAAVSIP PQHAYDREFLPVEEVATPGITTIEALANFFSIPLHKILKTLVVKLSYSNEEKFIAIGMRGDRQVNLVKVASKLNADDIAL ASDEBIBRVLGTEKGFIGPLNCPIDFFADETTSPMTNFVCAGNAKDKHYVNVNWDRDLLPPQYGDFLLAEEGDTCPENPG HPYRIYQGIEVAHIFNLGTRYTDSFEVNFQDEHGQTQQCWMGTYGIGVGRTLAACVEQLADDRGIVWPKALAPFSITIAF NGGDTVSQELAETIYHELQSQGYEPLLDDRDERLGFKLKDSDLIGIPYKLILGKSYQSSGIFEIESRSGEKYTVSPEAFP TWCQNHLA

## Seq ID 69

MASGIGGSSGLGKIPPKDNGDRSRSPSPKGELGSHEISLPPQEHGEEGASGSSHIHSSSFLPEDQESQSSSSAASSPGF FSRVRSGVDRALKSFGNFFSAESTSQARETRQAFVRLSKTITADERRDVDSSSAAATEARVAEDASVSGENPSQGVPETS SGPEPQRLFSLPSVKKQSGLGRLVQTVRDRIVLPSGAPPTDSEPLSLYELNLRLSSLRQELSDIQSNDQLTPEEKARATV TIQQLIQITEFQCGYMEATQSSVSLAEARFKGVETSDEINSLCSELTDPELQELMSDGDSLQNLLDETADDLEAALSHAR LSFSLDDNPTPIDNNPTLISQEBPIYEEIGGAADPQRTRENWSTRLWNQIREALVSLLGMILSILGSILHRLRIARHAAA EAVGRCCTCRGEECTSSEEDSMSVGSPSEIDETERTGSPHDVPRRNGSPREDSPLMNALVGWAHKHGAKTKESSESSTPE ISISAPIVRGWSQDSSVSFIVMEDDHIFYDVPRRKDGIYDVPSSPRWSPARELEEDVFGDYEVPITSAEPSKDKNIYMTP RLATPAIYDLPSRPGSSGSSRSPSSDRVRSSSPNRRGVPLPPVPSPAMSEEGSIYEDMSGASGAGGSDYEDMSRSPSPRG DLDBPIYANTPEDNPFTQRNIDRILQERSGGASASPVEPIYDEIPWIHGRPPATLPRPENTLTNVSLRVSPGFGPEVRAA LLSESVSAVMVEAESIVPPTEPGDGESEYLEPLGGLVATTKILLQKGWPRGESNA

### Seq ID 70

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### Sea ID 71

MKSSLHWFLISSSLALPLSLNFSAFAAVVEINLGPTNSFSGPGTYTPPAQTTNADGTIYNLTGDVSITNAGSPTALTASC FKETTGNLSFQGHGYQFLLQNIDAGANCTFTNTAANKLLSFSGFSYLSLIQTTNATTGTGALKSTGACSIQSNYSCYFGQ NFSNDNGGALQGSSISLSLNPNLTFAKNKATQKGGALYSTGGITINNTLNSASFSENTAANNGGALYTEASSFISSNKAI SFINNSVTATSATGGALYCSSTSAPKPVLTLSDNGBLNFIGNTAITSGGALYTDNLVLSSGGPTLFKNNSAIDTAAPLGG AIAIADSGSLSLSALGGDITFEGNTVVKGASSSQTTTRNSINIGNTNAKTVQLRASQGNTIYFYDPITTSITAALSDALN LNGPDLAGNPAYQGTIVFSGEKLSEAEAAEADNLKSTIQQPLTLAGGQLSLKSGVTLVAKSFSQSFGSTILMDAGTTLBT ADGITINNLVLNVDSLKETKKATLKATQASQTVTLSGSLSLVDPSGNVYEDVSWNNPQVFSCLTLTADDPANIHITDLAA DPLEKNPIHWGYQGNWALSWQEDTATKSKAATLTWTKTGYNPNPERRGTLVANTLWGSFVDVRSIQQLVATKVRQSQETR GIWCEGISNFFHKDSTKINKGFRHISAGYVVGATTTLASDNLITAAFCQLFGKDRDHFINKNRASAYAASLHLQHLATLS SPSLLRYLPGSESEQPVLFDAQISYIYSKNTMKTYYTQAPKGESSWYNDGCALELASSLPHTALSHEGLFHAYFPFIKVE ASYIHQDSFKERNTTLVRSFDSGDLINVSVPIGITFERFSRNERASYEATVIYVADVYRKNPDCTTALLINNTSWKTTGT NLSRQAGIGRAGIFYAFSPNLEVTSNLSMEIRGSSRSYNADLGGKFQF

# Seq ID 72

MFEKFTNRAKQVIKLAKKEAQRLNHNYLGTEHILLGLLKLGQGVAVNVLRNLGIDFDTARQEVERLIGYGPEIQVYGDPA LTGRVKKSFESANEEASLLEHNYVGTEHLLLGILHQSDSVALQVLENLHIDPREVRKEILKELETFNLQLPPSSSSSSS SRSNPSSSKSPLGHSLGSDKNEKLSALKAYGYDLTEMVRESKLDFVIGRSSEVERLILILCRRRKNNPVLIGBAGVGKTA IVEGLAQKIILNEVPDALRKKRLITLDLALMIAGTKYRGQFEERIKAVMDEVRKHGNILLFIDELHTIVGAGAAEGAIDA SNILKPALARGEIQCIGATTIDEYRKHIEKDAALERRFQKIVVHPPSVDETIEILRGLKKKYEEHHNVFITEEALKAAAT

LSDQYVHGRFLPDKAIDLIDEAGARVRVNTMGQPTDLMKLEAEIENTKLAKEQAIGTQEYEKAAGLRDEEKKLRERLQSM KQBWENHKEBHQVPVDEEAVAQVVSLQTGIPSARLTEAESEKLLKLEDTLRRKVIGQNDAVTSICRAIRRSRTGIKDPNR PTGSFLFLGPTGVGKSLLAQQIAIEMFGGEDALIQVDMSEYMEKFAATKMMGSPPGYVGHEEGGHLTEQVRRRPYCVVLF DEIEKAHPDIMDLMLQILEQGRLTDSFGRKVDFRHAIIIMTSNLGADLIRKSGEIGFGLKSHMDYKVIQEKIEHAMKKHL KPEFINRLDESVIFRPLEKESLSEIIHLBINKLDSRLKNYQMALNIPDSVISFLVTKGHSPEMGARPLRRVIEQYLEDPL AELLLKBSCRQEARKLRATLVENRVAFEREEEEQEAALPSPHLES

#### Seq ID 73

MGLQSRLQHCIEVSQNSNFDSQVKQFIYACQDKTLRQSVLKIFRYHPLLKIHDIARAVYLLMALKEGEDLGLSFLNVQQY PSGAVELFSCGGFPWKGLPYPAEHAEFGLLLLQIAEFYEESQAYVSKMSHFQQALFDHQGSVFPSLWSQENSRLLKEKTT LSQSFLFQLCMQIHPEYSLEDPALGFWMQRTRSSSAFVAASGCQSSLGAYSSGDVGVIAYGPCSGDISDCYYFGCCGIAK EFVCQKSHQTTEISFLTSTGKPHPRNTGFSYLRDSYVHLPIRCKITISDKQYRVHAALAEATSAMTFSIFCKGKNCQVVD GPRLRSCSLDSYKGPGNDIMILGENDAINIVSASPYMBIFALQGKEKFWNADFLINIPYKEEGVMLIFEKKVTSEKGRFF TKMN

#### Seq ID 74

MTKIAFSEKAKNFPVEALKKWFEKNKRSLPWRDNPTPYSVWVSEVMLQQTRAEVVIDYFNQWMERFPTIESLAAAKEEDV IKLWEGLGYYSRARHLLEGARMVMEEFHGKIPDDAISLAQIRGVGPYTVHAILAFAFKRRAAAVDGNVLRVLSRIFLIET SIDLESTRTWVSRIAQALLPHKSPEVIAEALIELGACICKKVPQCHRCPVRQACGAWRENKQFVLPVRHARKKVIFLHRL VAIVLYDGSLVVEKRRPKEMMAGLYEFPYIEVEPEEGLQDIEGFTKKMELSLESPLEFLGNLKEQRHAFTNHKVHLCPIIFKATSLPQFGELHLLSDIDHLAFSSGHKKIKDALLIYLGDVRSRESIGV

### Seq ID 75

MAVEGGGGVQPSSDPGKWNPALQGEQAEGPSPLKESIFSETKQASSAAKQESLVRSGSTGMYATESQINKAKYRKAQDRS STSPKSKLKGTFSKMRASVQGFMSGFGSRASRVSAKRASDSGEGTSLLPTEMDVALKKGNRISPEMQGFFLDASGMGGSS SDISQLSLEALKSSAFSGARSLSLSSSESSSVASFGSFQKAIEPMSEEKVNAWTVARLGGEMVSSLIDPNVETSSLVRRA MATGNEGMIDLSDLGQEEVSTAMTSPRAVEGKVKVSSSDSPEANPTGIPNSNTLERAEKEAEKQESREQLSEDQMMLARA MAGLLTGAAPQEVLSNSVWSGPSTVFPPPKFSGTLPTQRSGDKSKHKSPGIEKSTNHTNFSPLREGTVKSAEVKSLPHPE SMYRFPKDSIVSREEPEAVVKESTAFKNPENSSQNFLPIAVESVFPKESGTGGALGSDAVSSSYHFLAQRGVSLLAPLPR ATDDYKEKLEAHKGPGGPPDPLIYQYRNVAVEPPIVLRSPQPFSGSSRLSVQGKPEAASVHDDGGGGNSGGFSGDQRRGS SGQKASRQEKKGKKLSTDI

### Seq ID 76

MKRRSWLKILGICLGSSIVLGFLIFLPQLLSTESGKYLVFSLIHKESGLSCSAEELKISWFGRQTARKIKLTGEAKDEVF
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PHTYLRAIFPQPFVINVPLDVAYYSLNIEGTYKNAHLEADAILDNPLLKLSCSMSGAWKNFLFKGQGTYHFNKKWQEILS
PHFSYAEARFSGKAQITDTNLFFPKFSGKITARENELLIHAKFGSPNEPIKPETTSILHGQFCSLPLSLVSNHLAPFHL
KKLTFSFHTDGGKFVTKGNLQALIENPDYPDLNNTRILIPDLLLSLDESSTSPSSKDLKIQGSGEIFSLPLDSITKTYGK
QVRLSPYFGSSGDLNFVVNYNPKDQNKLTLLSNFKSEALLGELKLVMDFSMKLSSGTQGTLQWEVSPERYASFFKNASCS
PTCLLHRTANVRLDISKLSCPEETKGLSCLTLLAAGGLEGSLEATPLIFYDNVSKETFIINDFKGSLRANNLDAKIEYDL
KGSCLAPRQDSKTLAEFSLEGQVDHLFSPESREFKQTANWIHIPSSFIAGIIPMSPGLKAQISSLAGPRINVSIKNAFRF
GEGPVDIMVDSENLQAQIPLILNEKSILLRENLTAHLSINEDVNKAFLQEFNPLLAGGAYSQYPVTLEIDKQNFYLPIRP
YSFEEFRIQSATLDMGKISIANTGTMYALFQFLDITDQKQFVESWFTPIFFSVQKGSIICKRXDALIDRRIRLALWGKTD
IAHDRLFMTLGIDPEVIKKYFHNTSLKTKNFFLIKIRGSISSPEVDWSSAYARIALLKSYSLGNPFSSLADKLFSSLGDS

### Seq ID 77

MSSPVNNTPSAPNIPIPAPTTPGIPTTKPRSSFIEKVIIVAKYILFAIAATSGALGTILGLSGALTPGIGIALLVIPFVS
MVLLGLILKDSISGGEERRLREEVSRFTSENQRLTVITTTLETEVKDLKAAKDQLTLBIEAFRNENGNLKTTAEDLBEQV
SKLSEQLEALERINQLIQANAGDAQBISSBLKKLISGWDSKVVEQINTSIQALKVLLGQEWVQEAQTHVKAMQEQIQALQ
AEILGMHNQSTALQKSVENLLVQDQALTRVVGELLESENKLSQACSALRQEIEKLAQHETSLQQRIDAMLAQEQNLAEQV
TALBKMKQEAQKAESEFIACVRDRTFGRRETPPPTTPVVEGDESQEEDEGGTPPVSQPSSPVDRATGDGQ

# Seq ID 78

MRYDPNLIEKKWQQFWKEHRSFQANEDEDKVKYYVLDMFPYPSGAGLHVGHLIGYTATDIVARYKRARGFSVLHPMGWDS
FGLPAEQYAIRTGTHPKVTTQKNIANFKKQLSAMGFSYDEGREFATSDPDYYHWTQKLFLFLYDQGLAYMADMAVNYCPE
LGTVLSNEEVENGFSIEGGYPVERKMLRQWILKITAYADKLLEGLDALDWPENVKQLQKNWIGKSEGALVTFHLTQEGSL
EAFTTRLDTLLGVSFLVIAPEHPDLDSIVSEEQRDEVTAYVQESLRKSERDRISSVKTKTGVFTGNYAKHPITGNLLPVW
ISDYVVLGYGTGVVMGVPAHDERDREFAEMFSLPIHEVIDDNGVCIHSNYNDFCLNGLSGQEAKDYVINYLEMRSLGRAK
TMYRLRDWLFSRQRYWGEPIPIIHFEDGTHRPLEDDELPLLPPNIDDYRPEGFGQGPLAKAQDWVHIYDEKTGRPGCRET
YTMPQWAGSCWYYLRFCDAHNSQLPWSKEKESYWMPVDLYIGGAEHAVLHLLYSRFWHRVFYDAGLVSTPEPFKKLINQG

KDMFLGTCDFLFDTYSALIPQVRAYFEKLYPKDSKTPASAYATSLRAKVLDCIRGLLPAATLTNLGFFGNGRFWQNLIHK LQGHNLAELRRLGDESLTELMKVIPSFVSRAEPHHHHQAMMQYRRALKEQLKGLAEQATFSEEMSSSPSVQLVYGDPDG IYKVAAGFLFPYSNRSLTDLIDYCKKMPHRDLVQILESSVSARENRRHKSPRGLECVEFGFDILADFGAYRDLQRHRTLT QERQLLSTHHGYNFPVELLDTPMEKSYREAMERANETYNEIVQEFPEEAQYMVPMAYNIRWFFHVNARALQWICELRSQP QGHQNYRTIATGLVREVVKFNPMYELFFKFVDYSDIDLGRLNQEMRKEPTT

Seq ID 91

RVMKAVVSHKSRTSSIHRQYSSYSLFYSILK

Seg ID 92

DGVNFGNLFQPCPYCRGKYPSPTCTSTLSPSSS

Seq ID 93

GLRRFCKRYSIVVSESGEPFCLLKKKKIFL

Sea ID 94

 $\label{thm:local} \textbf{NFPICDRSSRFRGDCRDEDLCGRNRYEAFPDDKTEGHLCSCDTLALSKYCCLHSHGIWWIDSHASSPCCFCRIGGCFCNTPYGFLRIFLRRLPTESKIEYQ}$ 

Seq ID 95

FLPVLPGLLLGPPLPQMSFRL

Seq ID 96

 ${\tt FFIKYSLSNGYGIQKYLQTRLSAIPEWHFSGTNTSSKIKKLCEELSQNCSYHRSTGILGLRSS}$ 

Seg ID 97

 ${\tt CSYSVYSLWSLLQLLMLMKSEKKKSKFFNVSHHFQKVLRLSEDNMVQERFKESRSLAIVKKRMLTKIPE}$ 

Seq ID 98

AQAFGSLLLRML

Seq ID 99

ELLISYQRKTSSAIGKKNFTTSSQC

Seq ID 100

EGREDLPSALRKGSPTSGNSNFRSAAYCGSCC

Seq ID 101

RLRSTINTSQSSPQWDCTHPIYLCDVPHGSGYV

Seq ID 102

APQARGDTKIRGYRNRTRAC

Sea ID 103

 ${\tt GRLLKQCMLSSLRKWLAILQLFLIAQEKLRTLRLQILLLPSTLVKSKQALYHVLSVLQNTIDSWKLKKSLDPKQFSQILM\ YFLTRLRNRGIFSISILSPNQEYIADLWALSF}$ 

Seq ID 104

STNPTVALASIFDAKTTKCP

Seq ID 105

TDILVKFIKNIFPPLWRGNVVPRSKNMTSIYTHANGNLIFQILNEVTQFFKVTPN

Seq ID 106

SSRCTQREIAGRRTVNTPKPKRCMGS

Seq ID 107

IDATQINLNASQVDIHIRNHSSSYWSARTCMRRRVSPSTWSFIYKGEVWSWGRFPVNAFQAPNIIPNRTCFYFCSTTPCR GCISTTRFFSIPRTVDYSSFKFHAEHQMIVISCGSRALFHCRFYASRP

Seq ID 108

ALLSRACVASIIPARKSASIAICLPGIASNRNRAATSATRSAPLVTTIN

Seq ID 109

 ${\tt NKVITGSWRVGACESMETRKPPKCLKKKVDREKAVNIETIKVTAEGKS}$ 

Seq ID 110

GISVMMLSRCLSSFSSTCRRARTLIFPRPVVYVBRIPSEPQIIPPVGKSGPGMTCKISSTRACGFASRRSVASISSPKL CGGIFVAIPTAIPEEPLQRRFGNLEGKTTGSCFVSS

Seq ID 111

SGRIISVMLSAPPCELHSDLIDPDLFEFNHRLNICISAEVRGRVTTHTFRGDSCNMSFNCSVRGNVITIPRIIRIEIRSL TSSFSIITKCKRISSRLRITNIIAYWSLRYVCLRIDIKTVRECSSIKLRTFRRHITLHNKFTWRSRGI

Seq ID 112

SDRNSFSISVSFSKYADFIAPLNWSLRTRRAFNPVEAALIRFSHSSRVRPEVTVPEIRNS

Seg ID 113

MPWIFYKLFNINIGVIKTGFGFCTCGRKRSIEFVLFFNNTNSSSPTSSNGFNNRETYFFSYF

Seq ID 114

 ${\tt ISMSSIETPSSPTTSIRLPISEPFSRNCAAFFTAPPQPETFSSKICPTWFKYFDQEIKGSIEGYLRASARAFERPQNAPT}\\ {\tt TANVD}$ 

Seg ID 115

GDLEHYKHIHGPFSKSSHHGKRHKRHNYLMFLQCRYKTLCGDQES

Seq ID 116

RVSFNASPPITTSRRDSKQEFCFFAVFRI

Seq ID 117

 ${\tt SINPLAPQRSLGPAIQYQLEEWPIQDTSISRDPKRLSSTNTSVSYRNASEIFSCNSSLSRTKNIPILDPKCAVFTIIGKE~NVSIRF}$ 

Seq ID 118

PLGPAPITTQSNSWVIFSLTVIKISKRTPLHKCMHLIKKRTLCLF

Seq ID 119

 $\tt GEQPFLFHPTSQQSLSLYHHYIGTLQSSFHHWKHPLQKIAFPQKIFQDQQVHRLPTSQRGKTDLDPRFL$ 

Seq ID 120

VTSKYASMRPSIPNPASHTRKIARAPTSRLTRFPYAGYISSKKYQGAPVSPQGRSEPSGNTMRFEESPGTHTRPPSPRTD SEINRSLSLPGIAVG